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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/613,949	07/03/2003	Theodosios Korakianitis	716875.6	4629
32809 NUCLEUS RE	7590 05/21/2007 MODELING, INC.		EXAMINER	
3646 DOVER 1	PLACE	•	ALTER, ALYSSA M	
ST. LOUIS, MO 63116			ART UNIT	PAPER NUMBER
			3762	
			MAIL DATE	DELIVERY MODE
			05/21/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

· ·	Application No.	Applicant(s)		
	10/613,949	KORAKIANITIS ET AL.		
Office Action Summary	Examiner	Art Unit		
	Alyssa M. Alter	3762		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION B6(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the application to become ABANDON	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>24 Jul</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, p	•		
Disposition of Claims				
4) Claim(s) 32-61 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 32-61 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers				
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on 03 July 2003 is/are: a) ② Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti 11) ☐ The oath or declaration is objected to by the Ex-	☑ accepted or b)☐ objected to drawing(s) be held in abeyance. S ion is required if the drawing(s) is o	see 37 CFR 1.85(a). Objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119	•			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
	•			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/3/03 & 6/1/04	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:			

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Invention IV in the reply filed on 7/24/06 is acknowledged.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claims 32-61 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims are vague and appear to be method claims since it provides no further structure, but a mere recitation of intended use for such structure.

As to claim 32, 35, 39, 42, 57, the pump is not positively recited and merely inferentially included. As a result it is unclear if the Applicant is claiming a hydraulic pump in the system as a means of actuating the magnet.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

1. Claims 32-61 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Specifically, the claiming of structures being in

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contact with or implanted within the body amounts to an inferential recitation of the body, which renders these claims non-statutory. For example, the examiner recommends changing "in fluid communication with the blood output of the great vessel" to --adapted to be in fluid communication with the blood output of the great vessel --. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 61 are rejected under 35 U.S.C. 102(b) as being anticipated by Chardack (US 4,957,504). Chardack discloses an implantable blood pump with electromagnets located along the circumference and a permanent magnet disposed with the vessel on the helix 18 as seen in figures 1 and 3. The examiner considers the rotator or helix to be the one-way valve.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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USPQ 47 (CCPA 1966) See the MPEP 2144.04.

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1. Claims 32, 35-36, 39, 42-55 and 61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kurpanek (US 3,974,854). Kurpanek discloses an implantable artificial heart with magnets and a hydraulic pump as depicted in figure B2. Kurpanek discloses the claimed invention except for the annular or open center magnets. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the shape of magnets, since it has been held that the configuration of the claimed element is a matter of choice which a person of ordinary skill in the art would have found obvious absent persuasive evidence that the particular configuration of the claimed element was significant. *In re Dailey, 357 F.2d 669, 149*

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2. Claims 33-34, 37-38, 40-41 and 56-58 are rejected under 35 U.S.C. 103(a) as being unpatentable over the modified Kurpanek (US 3,974,854), as applied to claims 32, 35-36, 39, 42-58 and 61 above. The modified Kurpanek discloses the claimed invention except for the positioning of the device. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the placement of the device as taught by the modified Kurpanek to be disposed between the aortic valve and aoritic arch or between the pulmonary valve or the pulmonary trunck since it was known in the art that to position a valve replacement system in proximity to the valve in need or replacement.

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Claim Objections

1. Claims 53, 57-58 and 60 are objected to because of the following informalities: the repetition of the lettering system of "a, b, c, d, ..." is confusing and makes the claims elements unclear. The examiner recommends incorporating an additional number scheme (such as, 1, 2, 3, .) or removing one of them. Appropriate correction is required.

Allowable Subject Matter

1. Claim 60 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph and claim objections, set forth in this Office action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alyssa M. Alter whose telephone number is (571) 272-4939. The examiner can normally be reached on M-F 9am to 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Sykes can be reached on (571) 272-4955. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Examiner Art Unit 3762

> > GEORGE R. EVANISKO

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